

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P641276

Luminaire Tested: GWS-SA5F-750-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33844.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

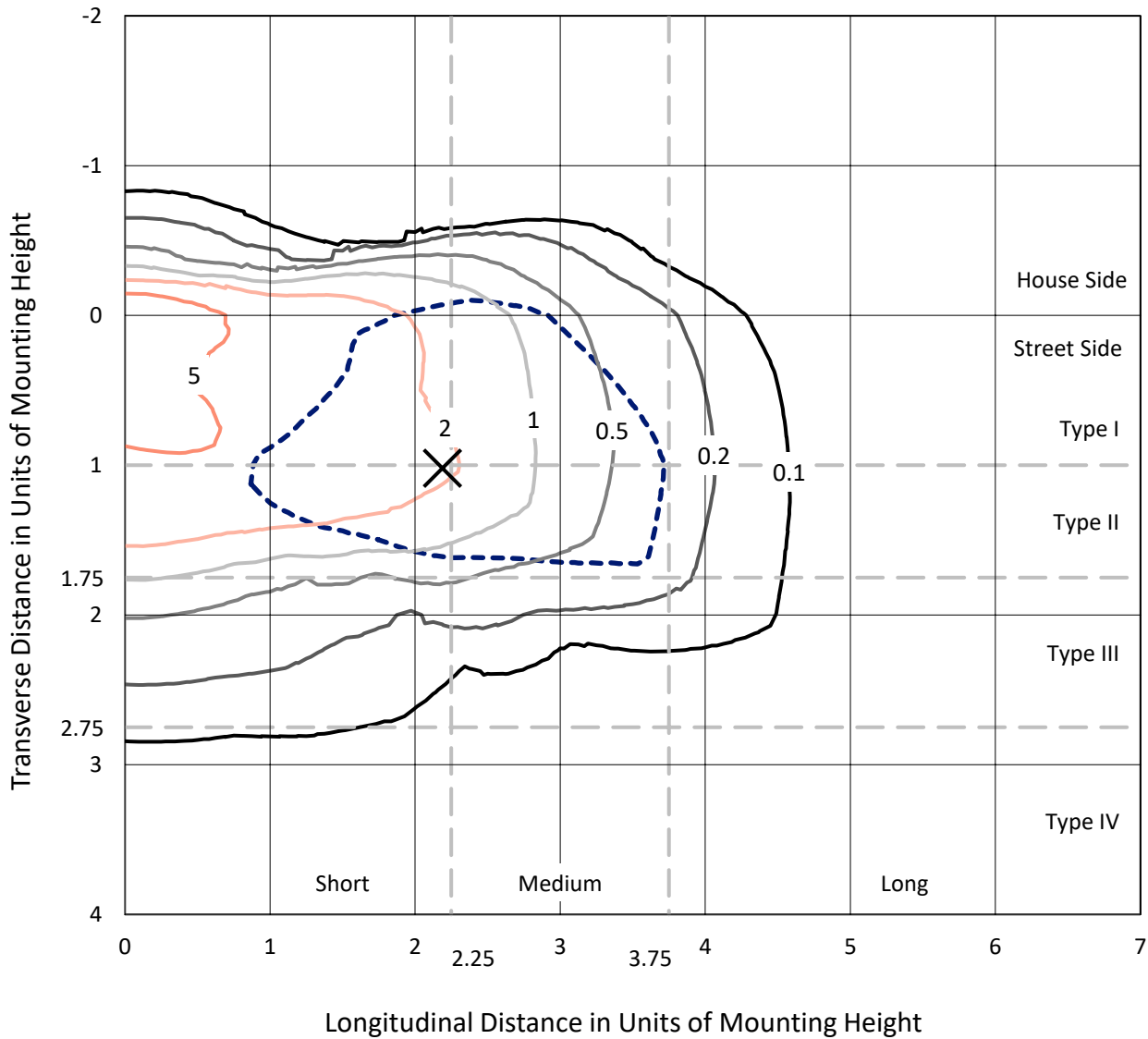
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

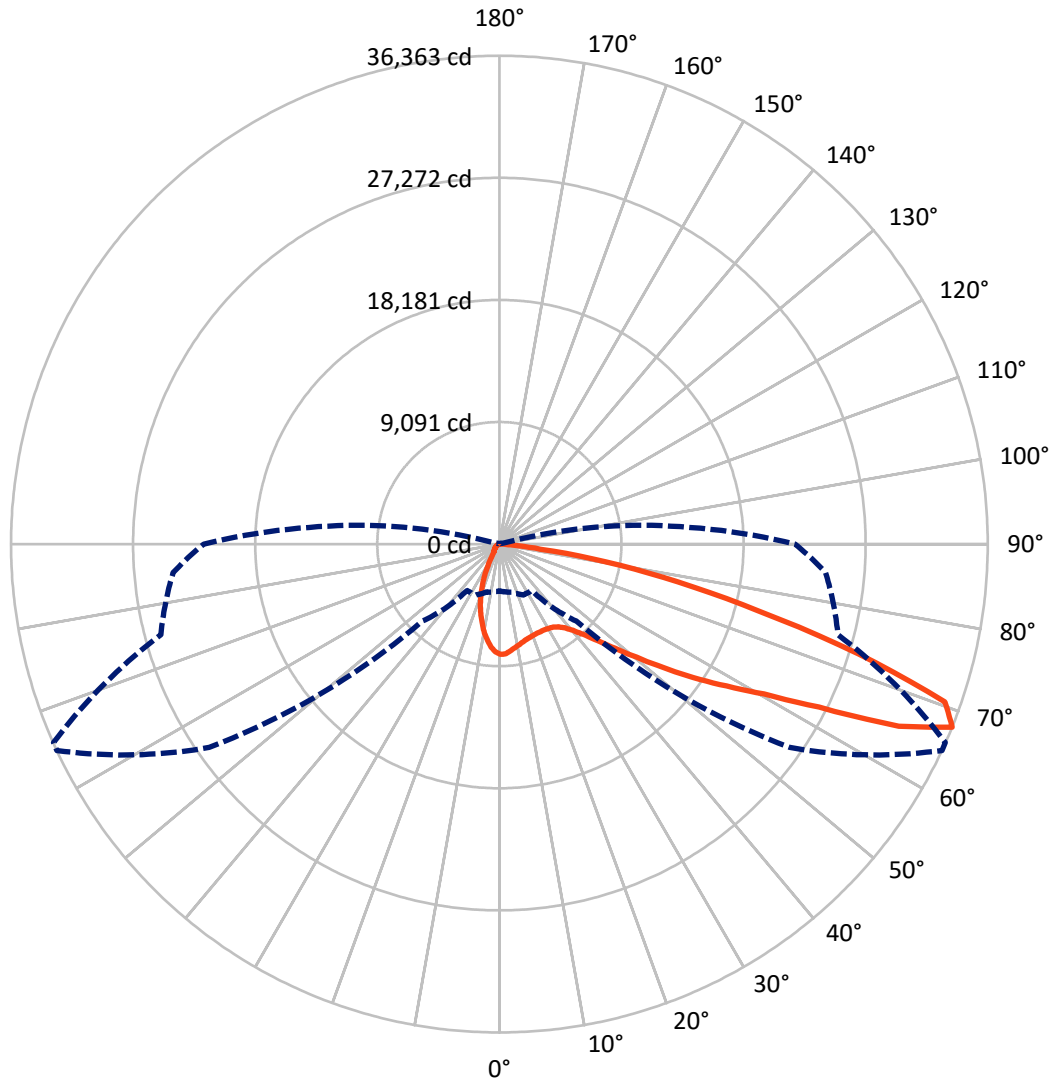
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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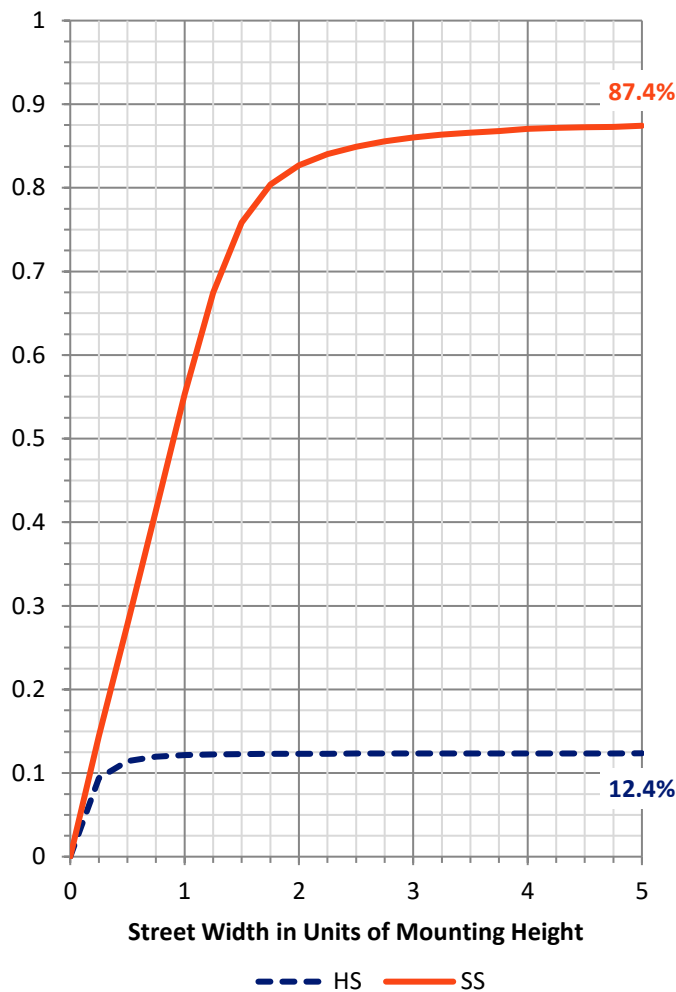
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4226.2	0.0	4226.2
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	29618.7	0.0	29618.7
	% Fixture	87.5	0.0	87.5
Total	Lumens	33844.9	0.0	33844.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.8	2.0
10°-20°	1532.5	4.5
20°-30°	2189.9	6.5
30°-40°	3186.1	9.4
40°-50°	4989.9	14.7
50°-60°	7784.4	23.0
60°-70°	8550.8	25.3
70°-80°	4550.7	13.4
80°-90°	378.9	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33844.9	100.0
0°-180°	33844.9	100.0

Coefficient of Utilization



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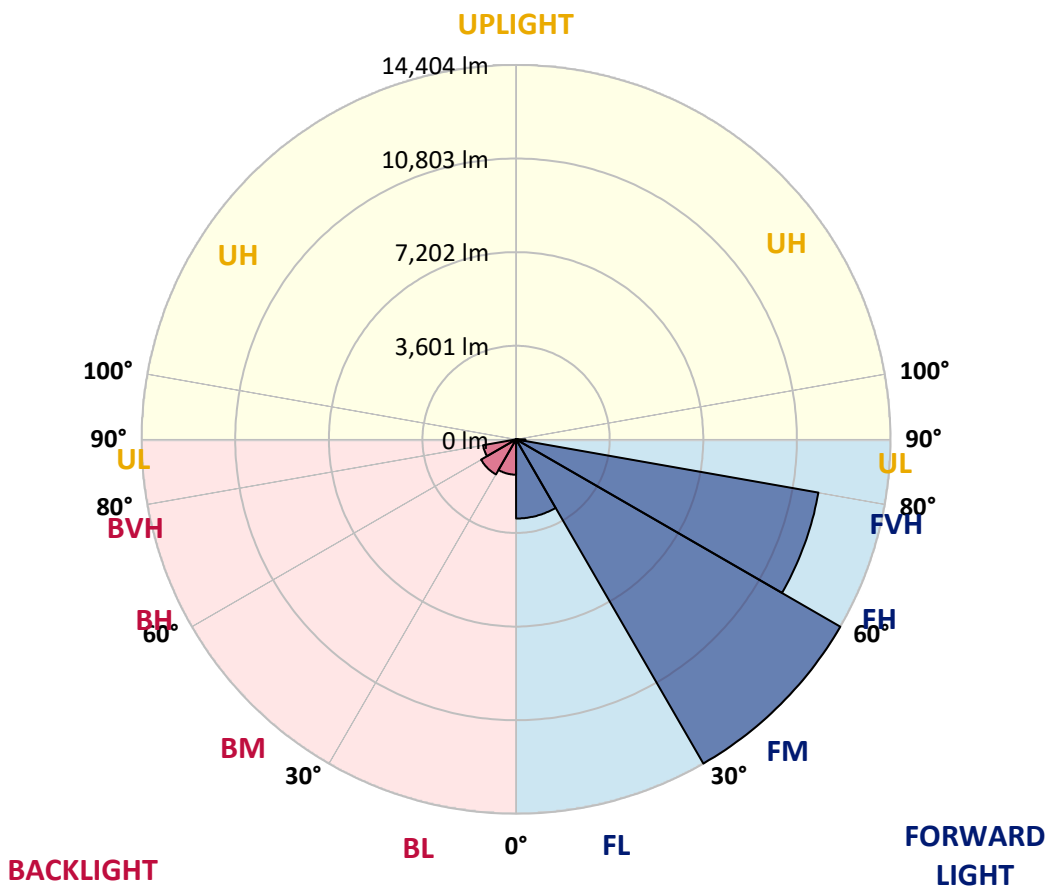
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3045.8	9.0			
FM (30°-60°)	14403.7	42.6			
FH (60°-80°)	11810.6	34.9			G4/12000
FVH (80°-90°)	358.6	1.1			G3/500
BL (0°-30°)	1358.4	4.0	B3/2500		
BM (30°-60°)	1556.7	4.6	B2/2500		
BH (60°-80°)	1290.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	20.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5
2.5°	7923.8	7948.3	7914.6	7997.3	8012.6	8104.4	8156.4	8193.2	8190.1	8236.0	8236.0
5°	7458.6	7483.1	7464.7	7553.5	7623.9	7767.7	7887.1	8024.8	8030.9	8171.7	8223.8
7.5°	7063.8	7066.9	7066.9	7177.0	7268.9	7446.4	7623.9	7835.1	7859.5	8076.8	8214.6
10°	6739.4	6748.6	6751.6	6877.1	6978.1	7192.3	7418.8	7672.9	7700.4	7994.2	8208.5
12.5°	6516.0	6519.0	6531.3	6662.9	6773.0	6996.5	7226.0	7516.8	7553.5	7899.3	8180.9
15°	6408.8	6402.7	6408.8	6519.0	6629.2	6843.4	7079.1	7391.3	7431.1	7819.8	8184.0
17.5°	6402.7	6393.5	6387.4	6470.0	6540.4	6730.2	6968.9	7308.6	7351.5	7783.0	8217.6
20°	6491.5	6485.4	6454.7	6491.5	6506.8	6662.9	6898.5	7244.4	7287.2	7776.9	8291.1
22.5°	6724.1	6708.8	6662.9	6629.2	6546.6	6638.4	6849.6	7198.5	7247.4	7792.2	8386.0
25°	7069.9	7063.8	7005.6	6923.0	6711.8	6675.1	6852.6	7198.5	7244.4	7810.6	8487.0
27.5°	7590.2	7553.5	7480.0	7336.2	7033.2	6819.0	6913.8	7216.8	7262.7	7835.1	8569.6
30°	8119.7	8116.6	8092.2	7945.2	7495.3	7094.4	7042.4	7265.8	7308.6	7856.5	8646.1
32.5°	8667.5	8676.7	8737.9	8624.7	8131.9	7504.5	7275.0	7366.8	7397.4	7899.3	8713.4
35°	9187.8	9206.2	9368.4	9408.2	8906.3	8125.8	7654.5	7568.8	7571.9	7994.2	8802.2
37.5°	9686.7	9747.9	10008.1	10200.9	9870.3	8878.7	8202.3	7911.6	7887.1	8184.0	8936.9
40°	10252.9	10369.2	10696.7	11024.2	10920.1	9873.4	8949.1	8438.0	8386.0	8532.9	9178.7
42.5°	10880.3	11005.8	11440.4	11899.5	11948.5	11076.2	9882.6	9206.2	9117.4	9120.5	9631.6
45°	11553.7	11722.0	12227.0	12888.1	13184.9	12416.7	11033.4	10243.7	10155.0	10023.4	10360.0
47.5°	12438.2	12585.1	13071.7	13833.8	14403.1	13855.2	12542.2	11578.1	11415.9	11223.1	11492.4
50°	13200.2	13328.8	13748.1	14703.0	15887.4	15709.9	14253.1	13246.2	13090.1	12762.6	12986.0
52.5°	13368.6	13469.6	13855.2	14929.5	17022.9	18051.3	16349.6	15263.1	15152.9	14546.9	14632.6
55°	12612.6	12765.6	13111.5	14305.1	17319.8	20340.6	19070.4	17537.1	17307.5	16340.4	16493.4
57.5°	10702.8	10975.2	11299.6	12851.3	16514.8	21558.7	22871.7	19945.7	19737.6	18066.6	18069.6
60°	7844.2	8064.6	8281.9	9702.0	14605.1	21476.0	26320.9	22651.3	22271.8	19477.5	19425.5
62.5°	5704.9	5818.1	5815.1	6320.1	10029.5	20062.1	28132.8	26728.0	25843.5	20986.3	20689.5
65°	4486.8	4483.7	4615.3	4780.6	5600.8	15486.5	28356.2	32680.8	31725.9	23009.4	22391.1
67.5°	3492.1	3559.4	3691.0	4177.7	4208.3	8104.4	26391.3	36362.7	36344.3	26097.5	24383.6
70°	2693.3	2785.1	2971.8	3681.9	3886.9	4535.8	19746.8	35196.6	35493.5	27477.8	22972.7
72.5°	1729.2	1723.1	1998.6	2974.9	3733.9	3779.8	10920.1	27958.3	28295.0	24888.6	18574.6
75°	967.1	973.3	1129.4	1821.0	3479.9	3556.4	5408.0	19936.6	20202.8	19404.0	14271.4
77.5°	379.5	391.8	529.5	958.0	2295.4	3176.9	3213.6	13595.1	13634.8	12025.0	8753.2
80°	153.0	162.2	269.3	593.8	1398.7	2139.3	2295.4	8009.5	7847.3	4655.1	2546.4
82.5°	45.9	49.0	107.1	336.7	731.5	1521.1	1548.6	3072.8	2901.4	1000.8	648.8
85°	3.1	3.1	24.5	104.1	260.1	382.6	1031.4	1000.8	887.6	251.0	287.7
87.5°	0.0	0.0	3.1	3.1	6.1	12.2	110.2	183.6	186.7	45.9	128.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5	8208.5
2.5°	8236.0	8125.8	8116.6	8030.9	7945.2	7838.1	7712.6	7620.8	7556.6	7443.3	7421.9
5°	8223.8	8076.8	7939.1	7694.3	7421.9	7128.1	6871.0	6632.3	6482.3	6381.3	6338.4
7.5°	8199.3	8012.6	7694.3	7232.1	6776.1	6261.9	5861.0	5493.7	5242.8	5095.9	5031.6
10°	8180.9	7929.9	7412.7	6711.8	6004.8	5294.8	4685.7	4141.0	3838.0	3599.2	3559.4
12.5°	8144.2	7810.6	7051.6	6102.8	5190.7	4248.1	3470.7	2803.5	2341.3	2133.2	2059.8
15°	8107.5	7685.1	6690.4	5460.1	4303.2	3140.1	2197.5	1554.8	1236.5	1138.5	1132.4
17.5°	8101.3	7571.9	6298.7	4851.0	3372.8	2056.7	1251.8	1006.9	939.6	915.1	915.1
20°	8119.7	7477.0	5913.0	4150.1	2457.6	1251.8	933.5	872.3	832.5	811.1	811.1
22.5°	8138.1	7379.0	5542.7	3443.1	1631.3	915.1	823.3	771.3	725.4	700.9	688.6
25°	8150.3	7271.9	5132.6	2733.1	1065.1	795.7	722.3	655.0	599.9	569.3	569.3
27.5°	8147.2	7143.4	4719.4	2038.3	826.4	707.0	618.2	547.8	492.8	459.1	462.1
30°	8122.8	7002.6	4290.9	1423.2	722.3	618.2	529.5	456.0	400.9	373.4	370.3
32.5°	8104.4	6852.6	3795.1	1000.8	648.8	541.7	449.9	379.5	333.6	312.2	309.1
35°	8083.0	6705.7	3323.8	762.1	584.6	468.3	379.5	321.4	284.6	266.3	266.3
37.5°	8089.1	6552.7	2812.7	655.0	520.3	407.1	324.4	275.5	244.8	226.5	223.4
40°	8184.0	6460.9	2310.7	593.8	462.1	352.0	281.6	238.7	208.1	189.8	186.7
42.5°	8419.6	6463.9	1830.2	547.8	410.1	299.9	244.8	205.1	177.5	156.1	153.0
45°	8891.0	6592.5	1404.8	498.9	355.0	260.1	211.2	174.5	146.9	128.5	125.5
47.5°	9662.2	6975.0	1065.1	456.0	309.1	226.5	180.6	146.9	122.4	107.1	104.1
50°	10889.5	7666.7	838.6	404.0	260.1	195.9	153.0	122.4	101.0	85.7	82.6
52.5°	12364.7	8704.3	719.2	358.1	223.4	171.4	131.6	101.0	82.6	70.4	67.3
55°	14060.3	9943.8	664.1	312.2	189.8	146.9	107.1	82.6	67.3	58.2	52.0
57.5°	15615.0	11060.9	661.1	266.3	162.2	125.5	88.8	70.4	58.2	45.9	42.8
60°	17130.0	11994.4	621.3	220.4	140.8	104.1	76.5	58.2	49.0	39.8	36.7
62.5°	18504.2	12753.4	520.3	177.5	119.4	85.7	64.3	52.0	42.8	33.7	33.7
65°	20230.4	13720.5	397.9	143.8	97.9	70.4	55.1	45.9	39.8	30.6	30.6
67.5°	22014.7	14231.7	284.6	119.4	79.6	61.2	49.0	42.8	33.7	27.5	27.5
70°	19939.6	12025.0	205.1	97.9	67.3	52.0	42.8	39.8	33.7	27.5	24.5
72.5°	15572.2	8670.6	153.0	76.5	58.2	49.0	39.8	36.7	30.6	24.5	24.5
75°	11547.5	5056.1	116.3	61.2	45.9	39.8	39.8	36.7	30.6	24.5	21.4
77.5°	6277.2	1762.9	88.8	49.0	36.7	30.6	33.7	33.7	27.5	21.4	18.4
80°	1661.9	483.6	61.2	36.7	30.6	24.5	24.5	30.6	24.5	18.4	18.4
82.5°	483.6	140.8	42.8	30.6	24.5	21.4	21.4	21.4	18.4	15.3	12.2
85°	235.7	52.0	30.6	24.5	21.4	18.4	15.3	15.3	12.2	9.2	9.2
87.5°	104.1	21.4	24.5	21.4	21.4	15.3	12.2	9.2	9.2	6.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)